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# Introduction

W.W. Comfort, in career and persona, was honored by a Conference in Set-Theoretic Topology, held in Curacao, Netherlands Antilles, June 17–21, 1996, at the Avila Beach Hotel. This volume of *Topology and its Applications* is the proceedings of that conference.

The conference was sponsored by the *Caribbean Mathematics Foundation* (Jorge Martinez, Director). The mathematical program was arranged, and this volume edited, by the undersigned. We are pleased to record our gratitude to

- Wis Comfort, for the conference's raison d'être;
- Alan Dow and Dieter Remus, for their lectures and papers surveying Comfort's work;
- Jorge Martinez, for masterfully managing all logistics, including funding;
- the Overseas Development Fund of the European Union, for grants in support of participants from the EU;
- several commercial enterprises in Curacao, for generous contributions to the conference: AHOLD Insurance; CITCO Trust; Isla Refinery; KPMG; Maduro and Curiel's Bank; Moret, Ernst and Young; Mees Pierson; Refineria Korsou;
- Mr. Huub Bongers, for his help in fund-raising;
- the staff at the Avila Beach Hotel, for their assistance and hospitality;
- all participants in the conference, speakers, and authors and referees of these papers.

Anthony W. Hager
Jan van Mill
*Guest Editors*

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## Conference Program

### Monday, June 17, 1996

*Morning Session.* A. Hager, Chair

8.30 Opening Remarks

8.45 W.W. Comfort, Wesleyan University
*Fourteen nice theorems and some associated questions*

10.00 K.P. Hart, Delft Institute of Technology
*Continuous images of $R^*$*

11.00 S. Hernández, University of Jaume I
*The concept of boundedness and the Bohr compactification of a MAP Abelian group*

*Afternoon Session.* J. van Mill, Chair

2.00 L. Gillman, University of Texas
*Emphasizing order relations rather than metric concepts in real analysis*

3.00 A. Hager, Wesleyan University
*The continuous functions are relatively uniformly dense in the Baire functions*

4.00 K. von Engelen, Econometric Institute EUR
*A non-homogeneous zero-dimensional space whose square is a topological group*

### Tuesday, June 18, 1996

*Morning Session.* Javier Trigos-Arrieta, Chair

8.30 A. Dow, York University
*Čech–Stone–Comfort: Whither ultrafilters*

9.15 W. Rudin, University of Wisconsin
*Stone–Weierstrass and all that*

10.15 A. Bella, University of Catania
*Embeddings preserving character and cardinal invariants*

11.15 S. Morris, University of Wollongong
*Suitable sets for topological groups*

*Afternoon Session.* Jorge Martinez, Chair

2.00 K.A. Ross, University of Oregon
*From Riemann sums to modular functions on locally compact groups*

3.00 R. Grinell, University of the West Indies
*Set-theoretic topology in harmonic analysis*

4.00 S. García-Ferreira, National Autonomous University of Mexico
*The Comfort order of ultrafilters*

**Wednesday, June 19, 1996**

*Morning Session.* Neil Hindman, Chair

8.30 M.E. Rudin, University of Wisconsin
*Separable, compact, linearly ordered spaces*

9.30 J. van Mill, Free University
*Two point set extensions*

10.30 P. Vitolo, University of Basilicata
*First countability and the Fréchet–Urysohn property of hyperspace topologies*

**Thursday, June 20, 1996**

*Morning Session.* W.W. Comfort, Chair

8.30 D. Remus, University of Hannover
*The role of W. Wistar Comfort in the theory of topological groups*

9.15 J. Martinez, University of Florida
*Finite separation spaces*

10.15 J. Reid, Wesleyan University
*On endomorphism rings of free modules*

11.15 J. Trigos-Arrieta, California State University at Bakersfield
*Linear spaces as subgroups of products of groups*

*Afternoon Session.* S. García-Ferreira, Chair

2.00 W. Roelcke, University of Munich
*Boundedness in topological groups*

3.00 E. Coplakova, Delft Institute of Technology
*Crowded rational ultrafilters*

4.00 E. Giuli, University of L'Aquila
*Topology in categories*

**Friday, June 21, 1996**

*Morning Session.* J. Martinez, Chair

9.00 J. Vaughan, University of North Carolina at Greensboro
*The Dugundji extension property can fail in $\omega_\mu$-metrizable spaces*

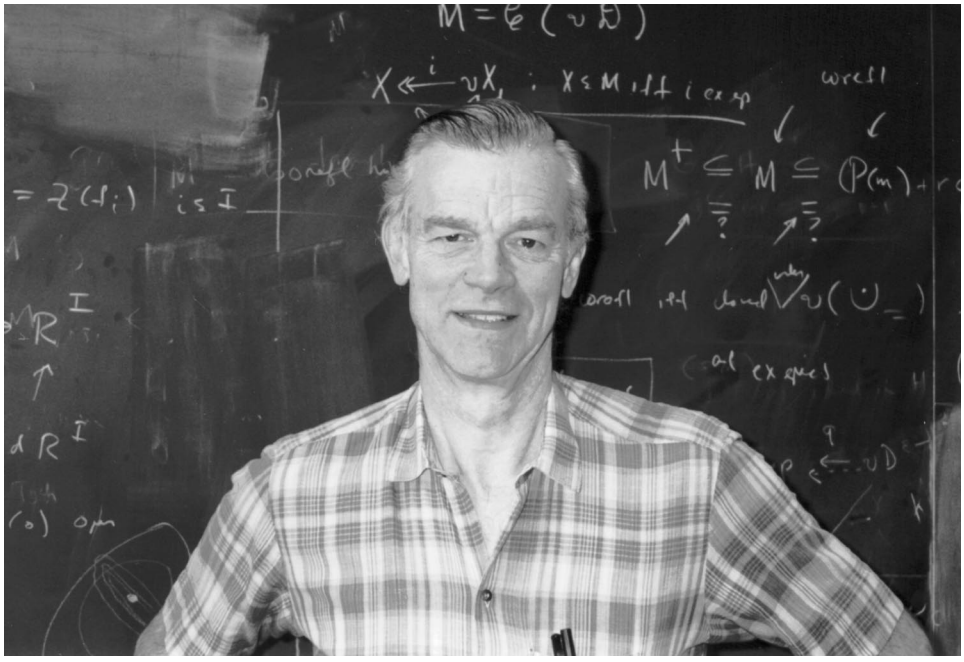
10.00 D. Remus, University of Hannover
*The number of totally bounded group topologies on non-abelian groups*

11.00 Neil Hindman, Howard University
*Independent finite sums for $K_m$-free graphs*

*Afternoon Session.* Neil Hindman, Chair

2.00 M. Henriksen, Harvey Mudd College
*Separate versus joint continuity: A tale of four topologies*

3.00 A. Dow, York University
*$\beta R - R$ is not coabsolute with $\beta N - N$*

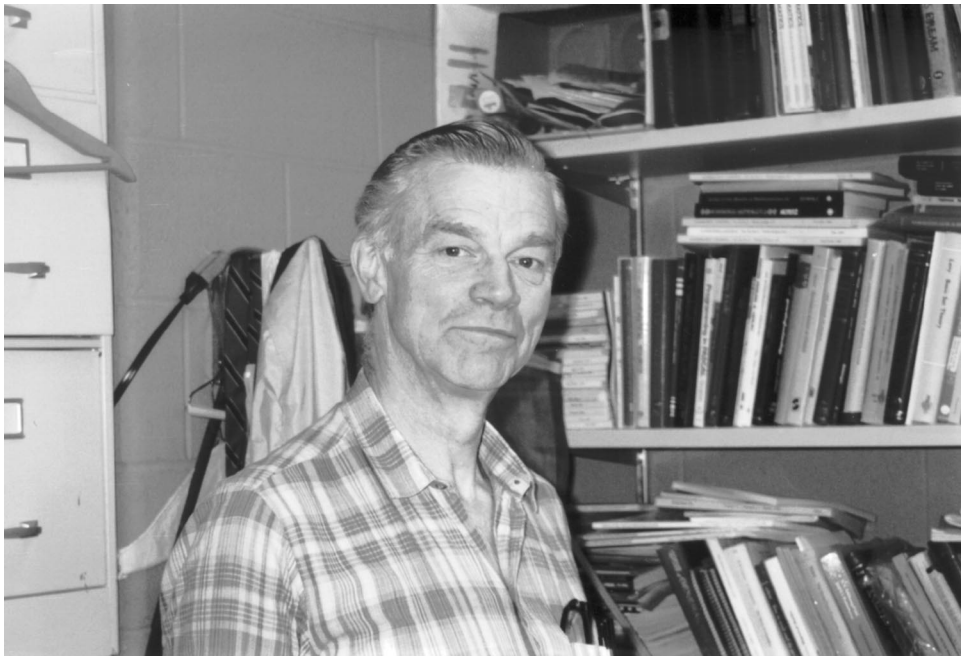


## Conference participants

H.R. Antonius (Surinam), A. Bella (Italy), C. Blankendal (St. Maarten), W.W. Comfort (USA), E. Coplakova (Netherlands), A. Dow (Canada), E. Elstak (St. Maarten), F. von Engelen (Netherlands), R. Finn (USA), S. García-Ferreira (Mexico), L. Gillman (USA), E. Giuli (Italy), C.W. Gorrison (Surinam), R. Grinnell (Barbados), A.W. Hager (USA), K.P. Hart (Netherlands), M. Henriksen (USA), S. Hernández (Spain), M. Herzog (USA), H.G. Ilahi (Surinam), N.B. Hindman (USA), C. Kimber (USA), J. Martinez (USA), W. McGovern (USA), J. van Mill (Netherlands), S. Morris (Australia), J. Reid (USA), D. Remus (Germany), K.A. Ross (USA), S. Rouse (St. Maarten), W. Roelcke (Germany), M.E. Rudin (USA), W. Rudin (USA), V. Schotborg (Aruba), F.J. Trigos-Arrieta (USA), J. Vaughan (USA), P. Vitolo (Italy).

## Doctoral Dissertations Directed by W.W. Comfort

Stelios A. Negrepontis, *A homology theory for realcompact spaces*, University of Rochester, 1965.
Norman L. Noble, *$k$-spaces and some generalizations*, University of Rochester, 1967.
Neil Hindman, *On $P$-like spaces and their product with $P$-spaces*, Wesleyan University, 1969.
Milton Don Ulmer, *Continuous functions on product spaces*, Wesleyan University, 1970.
Victor Saks, *Countably compact groups*, Wesleyan University, 1972.
Liam O'Callaghan, *Topological endohomeomorphisms and generalized $\Sigma$-products*, Wesleyan University, 1975.
Teklehaimanot Retta, *$\alpha$-compactness and density character*, Wesleyan University, 1977.
Charles Frank Waiveris, Jr., *Intersections of countably compact spaces*, Wesleyan University, 1979.



Thomas Joseph Peters, *Remote points, products and G-spaces*, Wesleyan University, 1982.
George Baloglou, *Compact-covering numbers*, Wesleyan University, 1986.
Salvador García-Ferreira, *Various orderings on the space of ultrafilters*, Wesleyan University, 1989.
Francisco Javier Trigos-Arrieta, *Pseudocompactness on groups*, Wesleyan University, 1991.
Haoxuan Zhou, *Homogeneity properties and power spaces*, Wesleyan University, 1993.
Oscar E. Masaveu, *Dense subsets of some topological groups*, Wesleyan University, 1995.

## William Wistar Comfort's Research Publications

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[2] The isolated points in the dual of a commutative semi-group, Proc. Amer. Math. Soc. 11 (1960) 227–233.
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[4] Inner product spaces and the tri-spherical intersection property (Co-author: Hugh Gordon), Proc. Amer. Math. Soc. 12 (1961) 327–329.
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[13] The ring $C(X)$ determines the category of $X$ (Co-author: Stelios Negrepontis), Proc. Amer. Math. Soc. 16 (1965) 1041–1045.
[14] Functions linearly continuous on a product of Baire spaces, Boll. Un. Mat. Ital. (3) 20 (1965) 128–134.
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[22] $F'$-spaces and their product with $P$-spaces (Co-authors: Neil Hindman and Stelios Negrepontis), Pacific J. Math. 28 (1969) 489–502.
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[25] Some topological properties associated with measurable cardinals (Co-author: Stelios Negrepontis), Fund. Math. 69 (1970) 191–205.
[26] Estimates for the number of real-valued continuous functions (Co-author: Anthony W. Hager), Trans. Amer. Math. Soc. 150 (1970) 619–631.
[27] Dense subspaces of some spaces of continuous functions (Co-author: Anthony W. Hager), Math. Z. 114 (1970) 373–389.
[28] The projection mapping and other continuous mappings on a product space (Co-author: Anthony W. Hager), Math. Scand. 28 (1971) 77–90.
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[32] Cardinality of $\kappa$-complete Boolean algebras (Co-author: Anthony W. Hager), Pacific J. Math. 40 (1972) 541–545.
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[34] Countably compact groups and finest totally bounded topologies (Co-author: Victor Saks), Pacific J. Math. 73 (1973) 33–44.
[35] On the relations $P(X \times Y) = P(X) \times P(Y)$ (Co-author: H. Herrlich), General Topology Appl. 6 (1976) 37–43.

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[65] On the "fragmentation" of certain pseudocompact groups, Bull. Greek Math. Soc. 25 (1984) 1–13.
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[78] Some topological groups with, and some without, proper dense subgroups (Co-author: Jan van Mill), Topology Appl. 41 (1991) 3–15.
[79] Long chains of Hausdorff topological group topologies (Co-author: Dieter Remus), J. Pure Appl. Algebra 70 (1991) 53–72.
[80] Non-homeomorphic disjoint spaces whose union is $\omega^*$ (Co-author: Akio Kato), Rocky Mountain J. Math. 23 (1993) 533–545.
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## Books

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## Other Publications

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